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PTO/SB/08A (08-00)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Complete if Known

Application Number	10/632,255
Filing Date	JULY 31, 2003
First Named Inventor	Michael J. Heller
Group Art Unit	1634
Examiner Name	Bradley L. Sisson
Attorney Docket Number	0612404-424

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number	Kind Code ² (if known)		
BZT	US-6,569,382	B1	Edman et al	05-27-2003
BZT	US-6,652,808	B1	Heller et al	11-25-2003
BZT	US-6,706,473	B1	Edman et al	03-16-2004

Examiner Initials *	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ₆
	Office ³	Number ⁴	Kind Code ⁵ (if known)			

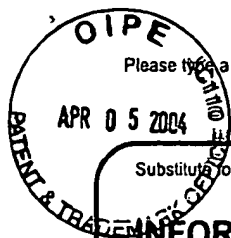
Examiner Initials *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

Examiner Signature	B. L. Sisson	Date Considered	1-23-04
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¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/632,255
		Filing Date	JULY 31, 2003
		First Named Inventor	Michael J. Heller
		Group Art Unit	1631
		Examiner Name	Not Yet Assigned
Sheet 1 of 1	Attorney Docket Number	0612404-424	

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
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BZA	ALIVISATOS, et al., "Organization of 'Nanocrystal Molecules' Using DNA", Nature, 382, 08/15/96, 609-611.	

Examiner Signature	B. L. Larson	Date Considered	1-23-06
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Sheet 1 of 1

Application Number 10/632,255
Filing Date July 31, 2003
First Named Inventor Michael J. Heller
Group Art Unit 1634-1654
Examiner Name Not Yet Available
Attorney Docket Number 612404-424

Examiner Initials *	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number	Kind Code ² (if known)		
BFA	US-5445934		Fodor et al	08/29/95
BFA	US-5527670		Stanley	06/18/96
BFA	US-6054270		Southern	04/25/00

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Examiner Signature	Date Considered
B. L. Lison	1-23-06

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FORM PTO-1449 LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 612,404-424	SERIAL NO. Not Yet Assigned
	APPLICANT: Michael J. Heller	
	FILING DATE: Herewith	GROUP: 1631 1634

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
B.H.	AA	3,950,738	04/76	Hayashi et al	365	185	07/74
	AB	3,995,190	11/76	Salgo	313	391	12/75
	AC	4,032,901	06/77	Levinthal	365	118	06/75
	AD	4,563,419	01/86	Ranki et al	435	6	12/83
	AE	4,580,895	04/86	Patel	356	39	10/83
	AF	4,584,075	04/86	Goldstein et al	204	552	11/84
	AG	4,594,135	06/86	Goldstein	204	551	02/85
	AH	4,599,303	07/86	Yabusaki et al.	435	6	12/83
	AI	4,728,724	03/88	Jones Jr et al	430	19	04/85
	AJ	4,731,325	03/88	Palva et al.	435	6	01/85
	AK	4,751,177	06/88	Stabinsky	435	6	06/85
	AL	4,787,963	11/88	MacConnell	204	450	05/87
	AM	4,804,625	02/89	Morrison et al	435	7	09/84
	AN	4,816,418	03/89	Mack et al	436	518	07/85
	AO	4,822,566	04/89	Newman	422	82	05/87
	AP	4,822,746	04/89	Walt	436	528	06/86
	AQ	4,824,776	04/89	Heller et al	435	6	07/85
	AR	4,859,583	08/89	Heller et al	435	7	02/85
	AS	4,868,103	09/89	Stavrianopoulos et al	435	5	02/86
	AT	4,908,112	03/90	Pace	210	198	06/88
	AU	4,908,453	03/90	Cocuzza	548	113	01/89
B.H.	AV	4,996,143	02/91	Heller	435/6	6	04/90

EXAMINER: <i>B. L. Lior</i>	DATE CONSIDERED: 1-23-06
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	FILING DATE: Herewith	GROUP: 1631 1634

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
BRA	AW	5,063,081	11/91	Cozzette et al	435	4	08/90
	AX	5,075,077	12/91	Durley III et al	422	56	08/88
	AY	5,096,807	03/92	Leaback	435	6	12/89
	AZ	5,125,748	06/92	Bjomson et al	356	414	05/91
	BA	5,126,022	06/92	Soane et al	204	458	02/90
	BB	5,143,854	09/92	Pirrung et al	436	518	03/90
	BC	5,164,319	11/92	Hafeman et al	435	287	11/89
	BD	5,166,063	11/92	Johnson	435	173	06/90
	BE	5,200,051	04/93	Cozzette et al	204	403	11/89
	BF	5,202,231	04/93	Drmanac et al	435	6	06/91
	BG	5,219,726	06/93	Evans	435	6	06/89
	BH	5,227,265	07/93	DeBoer et al	430	41	11/90
	BI	5,231,626	07/93	Tadokoro et al	369	121	03/92
	BJ	5,234,566	08/93	Osman et al	204	403	04/91
	BK	5,278,051	01/94	Seeman et al	435	91	12/91
	BL	5,304,487	04/94	Wilding et al	435	29	05/92
	BM	5,312,527	05/94	Mikkelsen et al	205	777	10/92
	BN	5,316,900	05/94	Tsujioka et al	430	270	10/93
	BO	5,346,789	09/94	Lewis et al	430	19	11/92
	BP	5,355,577	10/94	Cohn	29	592	06/92
	BQ	5,380,833	01/95	Urdea	536	22	12/91
BRA	BR	5,399,451	03/95	Hashida et al	430	19	04/93

EXAMINER: <i>B. A. Simon</i>	DATE CONSIDERED: 1-23-06
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	APPLICANT: Michael J. Heller	
	FILING DATE: Herewith	GROUP: 1634 1634

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
BPA	BS	5,405,783	04/95	Parrung et al.	436	518	03/92
	BT	5,434,049	07/95	Okano et al	435	6	02/93
	BU	5,466,575	11/95	Cozzette et al.	435	6	09/92
	BV	5,505,700	04/96	Leone et al.	604	101	06/94
	BW	5,561,043	10/96	Cantor et al	435	6	01/94
	BX	5,565,322	10/96	Heller	435	6	05/94
	BY	5,567,811	10/96	Misiura et al.	536	25.34	05/91
	BZ	5,605,662	02/97	Heller et al.	422	68	11/93
	BAA	5,632,957	05/97	Heller et al.	422	68	09/94
	BBB	5,637,458	06/97	Frankel et al.	435	6	07/94
	BCC	5,653,939	08/97	Hollis et al	422	50	08/95
	CA	5,674,743	10/97	Ulmer	435	287	06/95
	CB	5,681,751	10/97	Begg et al.	436	89	05/95
	CC	5,723,345	03/98	Yamauchi et al.	435	518	06/95
	CD	5,741,462	04/98	Nova et al.	422	68.1	09/95
	CE	5,751,629	05/98	Nova et al.	365	151	06/95
	CF	5,789,167	08/98	Konrad	435	6	09/94
	CG	5,795,714	08/98	Cantor et al.	435	6	08/93
	CH	5,849,486	12/98	Heller et al.	435	6	09/95
	CI	5,874,214	02/99	Nova et al.	435	6	10/95
	CJ	5,925,562	07/99	Nova et al.	435	287.1	06/95
BPA	CK	5,965,410	10/99	Chow et al.	435	91	11/97

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	APPLICANT: Michael J. Heller	
	FILING DATE: Herewith	GROUP: 1631 / 1634

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
BH	CL	5,965,452	10/99	Kovacs	436	149	07/96
	CM	5,968,745	10/99	Thorp et al.	435	6	10/97
	CN	5,972,187	10/99	Parce et al.	204	453	03/97
	CO	5,972,692	10/99	Hashimoto et al.	435	285	06/97
	CP	6,017,696	01/00	Heller	435	6	07/94
	CQ	6,025,129	02/00	Nova et al.	435	6	12/95
	CR	6,033,546	03/00	Ramsey	204	603	09/98
	CS	6,048,690	04/00	Heller et al.	435	6	05/97
	CT	6,051,380	04/00	Sosnowski et al.	435	6	12/97
	CU	6,251,691	06/01	Seul	436	534	04/97
BH	CV	6,507,989	01/03	Bowden et al.	29	592	03/97

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
							YES	NO
BH	CW	EP 0228075	07/87	Europe				
	CX	EP 0229943	07/87	Europe				
	CY	EP 0617303	09/94	Europe				
	CZ	GB 2156074	10/85	Great Britain				
	CAA	GB 2258236	02/93	Great Britain				
	CBB	WO 86/03782	07/86	PCT				
BH	CCC	WO 88/08528	11/88	PCT				

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BPA	CDD	WO 89/01159	02/89	PCT				
	CEE	WO 89/10977	11/89	PCT				
	CFF	WO 90/01564	02/90	PCT				
	CGG	WO 92/04470	03/92	PCT				
	CHH	WO 93/09128	05/93	PCT				
	CII	WO 93/21663	10/93	PCT				
	CJJ	WO 93/22678	11/93	PCT				
	CKK	WO 95/07363	03/95	PCT				
	CLL	WO 96/01836	01/96	PCT				
	CMM	WO 98/28320	07/98	PCT				
	CNN	WO 99/29711	06/99	PCT				
BPA	COO	57087	87	Yugoslavia				

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	FILING DATE: Herewith	GROUP: 1631 1634

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
BA	DA	Anand et al., "Pulsed Field Gel Electrophoresis" <u>Gel Electrophoresis Of Nucleic Acids-A Practical Approach</u> , 2 nd Ed., Eds. D.Rickwood & B.D.Hames (New York:IRL Press), 101-123 (1990)
	DB	Anderson et al., "Quantitative Filter Hybridization", <u>Nucleic Acid Hybridization-A Practical Approach</u> . Eds. B.D.Hames & S.J.Higgins (Washington D.C.:IRL Press), 73-111 (1985)
	DC	Baines, "Setting A Sequence To Sequence A Sequence", <i>Bio/Technology</i> , 10, 757-758, July 10, 1992
	DD	Barinaga., "Will 'DNA Chip' Speed Genome Initiative?", <i>Science</i> , 253, 1489, September 27, 1991
	DE	Bauer et al., "Robotic Nanomanipulation With An SPM In A Networked Computing Environment", website printout, http://alicudi.usc.edu:80 , 1-7, November 20, 1997
	DF	Beattie et al., The 1992 San Diego Conference: "Genosensor Technology", <i>Genetic Revolution</i> , 1-5, November (1992)
	DG	Beltz et al., "Isolation Of Multigene Families & Determination Of Homologies By Filter Hybridization Methods", <i>Methods In Enzymology</i> , 100, 26-285 (1983)
	DH	Brown et al., "Electrochemically Induced Adsorption Of Radio-Labelled DNA On Gold & HOPG Substrates For STM Investigations". <i>Ultramicroscopy</i> , 38, 253-264 (1991)
	DI	Bugart et al., "Multiplex Polymerase Chain Reaction", <i>Modern Pathology</i> , 5, (3), 320-323, May, 1992
	DJ	Callahan et al., "Alignable Lifftoff Transfer Of Device Arrays Via A Single Polymeric Carrier Membrane", <i>Electronics Letters</i> , 29, 951-953, May 27, 1993
	DK	Cardullo et al., "Detection Of Nucleic Acid Hybridization With Synthetic Olgonucleotides", <i>Proc.Natl.Acad.Sci.USA</i> , 85, 8790-8794, December, 1988
	DL	Connor et al., "Detection Of Sickel Cell β^1 -Globin Allele By Hybridization With Synthetic Olgonucleotides". <i>Proc.Natl.Acad.Sci.USA</i> , 80, 278-282, January, 1983
	DM	Cuberes, "Room Temperature Repositioning Of Individual C ₆₀ Molecules At Cu Steps: Operation Of A Molecular Counting Device", <i>Appl.Phys.Lett.</i> , 69, (20), 3016-3018 (1996)
	DN	Dagani, "Putting The Nano Finger On Atoms", <i>C&EN</i> , 20-23, December 2, 1996
	DO	Drmanac et al., "Sequencing Of Megabase Plus DNA By Hybridization: A Strategy For Efficient Large Scale Sequencing" <i>Genomics</i> , 4,114-128 (1989)
	DP	Drmanac et al., "DNA Sequence Determination By Hybridization: A Strategy For Efficient Large Scale Sequencing". <i>Science</i> , 260, 1649-1652, June 11, 1993
	DQ	Esener et al., "Punch-Through Current Under Diffusion Limited Injection: Analysis & Applications". <i>J.Appl.Phys.</i> , 12, 1380-1387, August, 1985
BA	DR	Esener et al., "Design Considerations For Three-Terminal Optically Addressed MQW Spatial Light Modulators". Presented at The Annual Meeting Of OSA, at Seattle, Wash, October, 1986

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	FILING DATE: Herewith	GROUP: 1631 1634

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
BZL	DS	Esener et al., "One Dimensional Silicon/PLZT Spatial Light Modulators". <i>Opt. Eng.</i> , 26, (5), 406-413, (Also in: <i>Proc. SPIE Annual Meeting In San Diego</i> , 8/86), May, 1987
	DT	Fan et al., "Fundamental Bandgap & Schottky Barrier Height Of Quarternary In AlGa As Grown On GaAs". MRS Meeting, Spring, 1992
	DU	Fan et al., "Quantum-Confined Stark Effect Modulators At 1.06 μ m On GaAs", accepted for publication, <i>IEEE Photonics Technology Letter</i> , 6, (12), 1383-1385, December, 1993
	DV	Feldman et al., "A Comparison Of Electrical & Free Space Optical Interconnections" <i>Appl. Opt.</i> , 27, 1742-1751 (1998)
	DW	Fodor et al., "Light Directed, Spatially Addressable Parallel Chemical Synthesis". <i>Science</i> , 251, 767-773 (1991)
	DX	Fodor et al., "Multiplexed Biochemical Assays With Biological Chips". <i>Nature</i> , 364, 555-556 (1993)
	DY	Garner et al., "Absorption Detection In Capillary Electrophoresis By Fluroescence Energy Transfer". <i>Anal. Chemistry</i> , 62, (2), 2193-2198, October 15, 1990
	DZ	Glazer et al., "Emerging Techniques Physofluor Probes", <i>Trends In Biochemical Sciences</i> , 9, (10), 423-427 (1984)
	EA	Haddon et al., "The Molecular Electronic Device & The Biochip Computer: Present Status", <i>Proc. Natl. Acad. Sci. USA</i> , 82, 1874-1878 (1985)
	EB	Halfhill, "New Memory Architectures To Boost Performance", <i>Byte</i> , 86-87, July, 1993
	EC	Heller, "An Active Microelectronics Device For Multiplex DNA Analysis", <i>IEEE Engineering In Medicine & Biology</i> , 15, (2), 100-104, March-April, 1996
	ED	Heller et al., "Interaction Of Divalent Manganese Ion With Adenosine Triphosphate & Related Compounds", <i>Biochemistry</i> , 9, (25), 4970 (1970)
	EE	Heller et al., "Interactions Of Miracil D With Double-Stranded Polyadenylic Acid & Polyuridylic Acid", <i>Biochemistry</i> , 13, 1623 (1974)
	EF	Heller et al., <u>Rapid Detection & Infection Of Infectious Diseases</u> . Eds. Kingsbury et al. (New York: Academic Press), 245-256 (1986)
	EG	Heller et al., "Chemiluminescent and Fluorescent DNA Probes In Hybridization Systems", <u>Rapid Detection & Identification Of Infectious Agents</u> . Eds. Kingsbury et al. (New York: Academic Press), 345-365 (1985)
	EH	Heller et al., "Self-Organizing Structures Based On Functional Synthetic Nucleic Acid Polymers", <i>Nanotechnology</i> , 2, 165-171 (1991)
	EI	Heller et al., "Microelectrophoresis For The Separation Of DNA Fragments", <i>Electrophoresis</i> , 13, 512-520 (1992)
	EJ	Heller et al., "Fluorescent Detection Methods In PCR Analysis", <u>The Polymerase Chain Reaction</u> . Eds. Mullis et al. (Birkhanuser) (1994)
	EK	Hopfield et al., "A Molecular Shift Register Based On Electron Transfer", <i>Science</i> , 241, 817-820, August 12, 1988
BZL	EL	Horejsi, "Some Theoretical Aspects Of Affinity Electrophoresis", <i>Jnl. Of Chromatography</i> , 1-13 (1979)

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
B1A	EM	Horejsi et al., "Determination Of Dissociation Constants Of Lectin Sugar Complexes By Means Of Affinity Electrophoresis", <i>Biochemica et Biophysica Acta</i> , 499, 290-300 (1977)
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	EP	Kornberg, <i>DNA Synthesis</i> . Eds. William H. Freeman (San Francisco) (1974)
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	ER	Lee et al., "Interfacial Properties Of InAlAs/InGaAs High FETs & MIS Capacitors", <i>Semiconductor Science & Technology</i> , 5, 716-720 (1990)
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	EU	Matthews et al., <i>Analytical Biochemistry</i> , 169, 1-25 (1988)
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	EZ	Moses, "Bioelectronics: 'Biochips'", <i>Biotechnology: The Science & The Business</i> , ch 21, 371-378 (1991)
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	FB	Palecek, "New Trends In Electrochemical Analysis Of Nucleic Acids", <i>Bioelectrochemistry & Bioenergetics</i> , 20, 179-194 (1988)
	FC	Ranki et al., "Sandwich Hybridization As A Convenient Method For Detection Of Nucleic Acids In Crude Samples", <i>Gene</i> , 21, 77-85 (1983)
	FD	Requicha, "Nanorobotics", web site printout, http://alicudi.usc.edu:80 , 1-13, November 20, 1997
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	FF	Saiki, "Amplification Of Genomic DNA", <i>PCR Protocols: A Guide To Methods & Applications</i> . (Academic Press), 13-20 (1990)
B1A	FG	Shih et al., "Quantum-Confined Stark Effective Modulators On GaAs Substrates", <i>Electronic Letters</i> , 30, (20), September, 1994
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BH	FH	Shih et al., "Integration Of InAlGaAs/InGaAs MODFET's On MQW Modulators On GaAs Substrates", <i>Electronic Letters</i> , 30, (20), September, 1994
	FI	Southern et al., "Analyzing & Comparing Nucleic Acid Sequences By Hybridization To Arrays Of Oligonucleotides Evaluation Using Experimental Models", <i>Genomics</i> , 13, 1008-1017 (1992)
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	FK	Stroscio et al., "Atomic & Molecular Manipulation With The Scanning Tunneling Microscope", <i>Science</i> , 254, 1319-1326 (1991)
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	FO	Washizu, "Electrostatic Manipulation Of Biological Objects", <i>Journal of Electrostatics</i> , 25, 109-123 (1990)
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	FS	Yu et al., "A Novel In GaAs PIN Photodiode On Semi-Insulating InP", <i>Optical & Quantum Electronics</i> , 18, 174-177 (1986)
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BH	FU	Yu et al., "High-Speed, Self-Passivated InGaAs PIN Photodiode for Microwave Fiber Links," <i>Electron. Lett.</i> , 23, 570/72, 1987.

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